

Web Services Transaction Coordination

P.A.S-D. Amarasekara

A Dissertation submitted in partial fulfillment of the requirements for the degree of Master of
Science in computer science

Department of Computer Science & Engineering
University of Moratuwa

Srilanka

January 2007

92285

Abstract

The work earned out during this research covets the transactional aspects of Web Services. A model and protocols that desen be Web Services Transactions arc defined by OASIS (16] >n the Web Services Coordination. Web Services Atomic Transactions and Web Service Business Transactions specifications [7J, [8], [9J. An attempt has been taken to design and implement a transaction coordination framework based on these specifications.

The transaction coordination framework discussed here is capable of supporting both Atomic Transactions and Business Activities as defined in respective specifications. The interoperability among the implementations of the aforementioned specifications it a major concern and a guided by the interoperability scenarios [10], [11J defined by OASIS. The transaction coordination framework discussed in this thesis is designed in such a way that it can be implemented in any of the major platforms The design has been implemented in the Net environment and it confirms to the interoperability guidelines provided by the OASIS.